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UNITED STATES DEPARTMENT OF THE INTERIOR
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REPORT OF
VEGETATIVE TYPE SURVEY
OF
SEQUOIA NATIONAL PARK
1933-1934

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THE
VEGETATIVE - TYPE SURVEY
OF
SEQUOIA NATIONAL PARK
1933-1934

Wilfrid T. Frost
Chief Mappist
May 10, 1935

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The
VEGETATIVE - TYPE SURVEY
of
SEQUOIA NATIONAL PARK

The Vegetative-type map of Sequoia National Park is a survey showing by means of symbols and colors the dominant species of plants found throughout the park.

The types were delineated in the field, on a U.S.G.S. topographical map, by ocular sketching from ridges, peaks, and other vantage points, supplemented by occasional sample plot checks.

The Vegetative-type map is to be used in rating the fire hazard, and in planning for protection against fire; in planning insect and disease control; in the determination of the proper land use or for recreation, wildlife, or campground development, etc.; in ecological studies of the fauna and flora; as part of a vegetative-type survey of the State of California under the direction of the California Forest Experiment Station; and as a part of the nation-wide forest survey authorized by the McSweeney-McNary Research Act of 1928.

In order that the type map of Sequoia National Park might have the greatest possible value for the United States and California State Forest Services as well as for the National Park Service, it was decided to make the fullest possible use of the "Instructions for the preparation of the Vegetative-type Map of California" ** as prepared by the California Forest Experiment Station. One or two omissions and additions were the only departures from these instructions. Since the forests of a National Park are not open to commercialization, it was deemed unnecessary to determine the degree of stocking and site classification as required on all lands subject to commercialization.

For mapping and study purposes, the vegetation has been divided into general fire hazard types, with a further subdivision into pure and mixed stands in which the dominant species are indicated by symbols.

In shrub types a pure stand is defined as one in which a single species covers approximately 80 percent or more of the area; and a mixed stand as one in which two or more species occur, with no one occupying as much as 80 percent or less than 20 percent of the area.

** Edition of August 14, 1933, by A. E. Wieslander, H. A. Jensen, and H. S. Yates.

In tree types a pure stand is one which contains approximately 80 percent or more of a single species, 8 inches D.B.H.* and larger; and a mixed stand contains two or more species none of which comprises as much as 80 percent or less than 20 percent of the total number of trees 8 inches D.B.H. and larger.

Any species of distributional or ecological importance which is present as scattered individuals or in small groups but which is less than 20 percent of the stand has been shown by symbol on the reference map. The reference map also shows the location of sample plots, photographs, and the route of travel.

* Diameter Breast High or 4.5 feet.

DESCRIPTION OF TYPES

BARREN

 Barren (Areas left uncolored)

Areas which are too rocky, too exposed, or at too high an elevation to support more than a very scattered growth of herbs or shrubs. Such areas are so devoid of vegetation as to constitute a definite fire barrier.

There are 93,496 acres of this type in the park, of which more than 75,000 acres are found in the Kern drainage above timberline under alpine conditions.

 Semi-barren (Cross-hatched diagonally)

Areas within any type (exclusive of Sub-alpine) whose vegetation, while not so scanty as to class the area as barren, covers less than half of the ground surface; usually found on rocky or very steep slopes, as in the case of Kern Canyon.

CULTIVATED

 Cultivated (Dixon's #322 colored pencil)

The relatively few cultivated areas (32 acres) found in the park are delineated and marked Cu. Principal locations are along the North Fork of the Kaweah, on Yucca Creek, and in the Oriole region.

GRASSLANDS

Gr Grasslands and Meadows (Dixon's #353)

Areas where the principal vegetation consists of grasses, sedges, rushes, and herbs. Dry grasslands of the foothills are labeled Gr., while the wet mountain meadows which may or may not contain willows (Sx) are labeled Mdw. Frequently a meadow may support a scattered growth of Lodgepole Pine, in which case the symbol for Lodgepole (L) is included in the meadow type.

SHRUB TYPES

The chaparral or brushfield belt is divided into four types, namely: (1) Sagebrush, (2) Chamise, (3) Chaparral, and (4) Timberland-Chaparral. The first three belong to the Upper Sonoran Zone*, the fourth to the Transition Zone.

Sagebrush (Faber's #44)

This type is found in only a few places, none of them in the park, and is composed chiefly of the Yerba Santa (Ec) (*Eriodictyon californicum*). This species is usually among the first in the plant succession which follows fire; its most frequent associates are grass and other herbaceous vegetation. This type presents a serious fire hazard and is found chiefly on the South Fork of the Kaweah just below the park line on the site of the 1923 burn.

Chamise (Dixon's #343)

The dominance of Chamise (Af) (*Adenostoma fasciculatum*), the scantiness of leaf-litter due to the fine needle-like leaves of the species, and the restriction for the most part to hot and dry southerly exposures characterize this type.

The Manzanitas are the commonest associates in this type, principally the Mariposa Manzanita (Ama) (*Arctostaphylos mariposa*) and the Sticky Manzanita (Av) (*Arctostaphylos viscida*), although the Birchleaf Mountain Mahogany (Cb) (*Cercocarpus betuloides*) is also frequently found.

The chamise chaparral makes up the bulk (16,500 acres) of the total shrub type in the park and is found principally on the lower south and west slopes of the North and Middle Forks of the Kaweah.

*C. Hart Merriam's "Life Zones and Crop Zones of the U. S." (1998)

Most of the Class C** fires in the park have occurred in this type, and burns as old as 10 years still show the effects of the fire. A good example is the 400 acre fire of 1926 at Hospital Rock.

- ** Classification of fires: A - 1/4 acre or less.
B - More than 1/4 but less than 10 acres.
C - 10 acres or more

Chaparral (Faber's #49)

This type embraces all of the Upper Sonoran Chaparral belt, exclusive of the Chamise chaparral. The chief species of this type are the Birchleaf Mountain Mahogany (Cb) (*Cercocarpus betuloides*) and the Buckbrush (Cc) (*Ceanothus cuneatus*), while the following species are found occasionally: Chaparral Whitethorn (Cd) (*Ceanothus divaricatus*), Mariposa Manzanita (Ama) (*Arctostaphylos mariposa*), Kaweah Oak (Qgs) (*Quercus garrayana semota*), Sticky Manzanita (Av) (*Arctostaphylos viscida*), and Whiteleaf Manzanita (Apa) (*Arctostaphylos patilloso*).

In contrast with the Chamise chaparral, this type normally has a deep leaf-litter (2 to 4 inches), is of impenetrable density, and attains a greater height (6 to 18 feet). These characteristics make it a superior water-shed cover, but also a higher fire hazard. Fire has apparently gradually extended this type at the expense of the woodland type as is evidenced by relicts and standing dead snags of these species.

Occasionally a woodland-chaparral type is mapped containing any of the chaparral species with scattered Canyon Live Oak (C) (*Quercus chrysolepis*) or the California Buckeye (E) (*Aesculus californica*).

Timberland-Chaparral (Dixon's #335)

Characterized by Transition Zone species, this is a temporary fire-type occupying areas that are thought by some to be potential timber-growing lands, except, of course, where the area is too rocky. This type varies from 3 to 5 feet (sometimes 10 feet) in height and builds up from 2 to 3 inches of leaf-litter. Located at higher and cooler elevations, it is of lower fire hazard than the other chaparral types.

The commonest species met in this type are the Greenleaf Manzanita (Ap) (*Arctostaphylos patula*), Snow brush (Cco) (*Ceanothus cordulatus*), and the Chinouapin (Cs) (*Castanopsis sempervirens*), with the following species occurring less often: Bitter Cherry (Pe) (*Prunus emarginata*), Willow (Sx) (*Salix* sp.), and Sagebrush (Atr) (*Artemisia tridentata*).

In the high mountain areas where the willows form a pure stand along the drainage, they have been mapped as timberland-chaparral with symbol Sx; where accompanied by sufficient grass or herbs for grazing, they have been mapped as a meadow type (Mdw).

WOODLAND TYPES

Woodland types are composed of various broad-leaved trees usually forming a closed canopy and ranging from 30 to 50 feet in height. Three sub-types are recognized under this heading, namely: (1) Woodland Chaparral, (2) Woodland-Grassland, and (3) Woodland.

Woodland-Chaparral (Dixon's #343 and Faber's #49)

This covers types that are transitional between Woodland and Chaparral, with both Woodland and Chaparral species appearing in the crown canopy. The mixture is sometimes uniform throughout the area, or it may be made up of small areas of two types: that is, individual areas that are too small to map.

The type is colored for the nearest related chaparral type based on fire hazard and the dominant species.

Species that are most often found associated in this type are as follows:

- C - Canyon Live Oak (*Quercus chrysolepis*)
- Cb - Birchleaf Mountain Mahogany (*Cercocarpus betuloides*)
- Cd - Chaparral Whitethorn (*Ceanothus divaricatus*)
- Af - Chamise (*Adenostoma fasciculatum*)
- Am - Mariposa Manzanita (*Arctostaphylos mariposa*)

Woodland-Grassland (Dixon's #324)

This, essentially a grazing type, consists of open stands of broad-leaved species with a grass or herbaceous ground cover. This type differs from a pure woodland type in that the crowns of the trees do not form a closed canopy over the ground surface. This type is most extensive on the low elevations of the North and Middle Forks of the Kaweah. The woodland species found in this type are as follows:

- D' - Blue Oak (*Quercus douglassii*)
- B - California Black Oak (*Quercus kelloggii*)
- W - Interior Live Oak (*Quercus wislizenii*)
- C - Canyon Live Oak (*Quercus chrysolepis*)

The grass and other herbaceous ground cover is indicated by the symbol Gr.

Woodland (Dixon's #349)

This is a broad-leaf stand in which the crowns of the trees form a complete canopy obscuring the understory vegetation from view. About 23,000 acres of woodland are found throughout the park, nearly half of the total concentrated in the Middle Fork of the Kaweah. This type presents a formidable fire hazard.

Field observation has shown that the Woodland type easily divides itself into two general sub-types:

The Canyon Live Oak sub-type (C) (*Quercus chrysolepis*) is typical of steep, rocky slopes and canyons. It is found in both the Upper Sonoran and Transition Zones and occupies a position directly below the coniferous types in many localities. It is a frequent associate with stragglers of the Ponderosa Pine, thus evidencing the fact that it is the first plant to appear on an area after fire destroys the original coniferous cover. It is particularly adapted to quick succession since it survives by sprouting from the old root system.

The Black Oak sub-type (B) (*Quercus kelloggii*) lies within the Transition Zone and, like Timberland-chaparral, appears to be a fire type occupying potential coniferous timberlands. Ponderosa Pine is very commonly associated with the Black Oak in this type.

The Stream-side association is a relatively narrow woodland type and consists of varying associations of the following species:

- B - Black Oak (*Quercus kelloggii*)
- W - Interior Live Oak (*Quercus wislizenii*)
- S - Sycamore (*Platanus racemosa*)
- A - White Alder (*Alnus rhombifolia*)
- F - Fremont Cottonwood (*Populus fremontii*)
- E - Black Cottonwood (*Populus trichocarpa*)
- I - Incense Cedar (*Libocedrus decurrens*)
- M - Bigleaf Maple (*Acer macrophyllum*)
- C - Canyon Live Oak (*Quercus chrysolepis*)

MAIN TIMBER TYPES

The timber belt of Sequoia National Park covers about 153,000 acres, or 32 percent of the total area of the park.

The following timber types make up the main stand of the Sierran forest in the park, and are found in the Transition and Canadian Zones.

Sequoia Types (Dixon's #321 $\frac{1}{2}$)

Because of the importance of the Big Tree (Br) (*Sequoia gigantea*) to Sequoia National Park, all vegetative-types that contained individuals of the Sequoia were mapped as of the Sequoia type, regardless of whether or not the Sequoia was present to the extent of 20 percent of the stand.

Never found in pure stands, the Big Tree is generally associated with Sugar Pine and White Fir, although Ponderosa Pine, Shasta Red Fir, and Incense Cedar are found with it in some localities.

The bulk of the Big Trees grow between 6,000 and 7,500 feet elevation above sea level, while quite a few are found down to 5,500 and up to 8,000 feet. The highest known Sequoia in the Sierra occurs at 8,800 feet on the southeast slope of Paradise Ridge above Atwell Mill. It is a tree 140 feet high and about 13.7 feet in diameter at 7 feet from the ground. This tree still bears cones although the viability of the seeds is not known. The tree is isolated from the nearest grove (Atwell) by 800 to 1000 feet.

The lowest Sequoia in the park is located just below Clough Cave at 3500 feet. Another tree may be seen in the river bed about 2 miles down stream, just below Johnson's ranch at 3,000 feet.

Confusion is very apt to arise in field identification (with binoculars) between the Big Tree and the Incense Cedar. At a great distance it is nearly impossible for an inexperienced observer to tell the tops of the trees apart. This fact has undoubtedly been the cause of occasional reports of groves of Big Trees where none actually exist.

Pine Types (Dixon's #325)

This is a pure pine stand including both the Ponderosa (Yellow) Pine (Y) (*Pinus ponderosa*) and the Jeffrey Pine (J) (*Pinus ponderosa jeffreyi*) which are difficult to differentiate in mapping. The former is found on relatively fertile slopes, while the latter occurs on more rocky ground or in mixture with the former. The stands are usually more open than in the higher timber belts and may have an understory of Bear Clover (Cf) (*Chamaebatia foliolosa*) or Pinemat Manzanita (An) (*Arctostaphylos nevadensis*), or may occur in a mixed Pine-chaparral type with the Greenleaf Manzanita (Ap) (*Arctostaphylos patula*), Snow-brush (Cco) (*Ceanothus cordulatus*), or Chinquapin (Cs) (*Castanopsis sempervirens*). This type presents a very serious fire hazard, because of the understory of brush which frequently accompanies it.

Pine-Fir Types (Dixon's #354)

One of the largest single types in the park is a mixed stand of ponderosa Pine (Y) (*Pinus ponderosa*), White Fir ($\hat{W}$) (*Abies concolor*), and Sugar Pine (S) (*Pinus lambertiana*). Other trees that are to be found in this type are the Jeffrey Pine (J) (*Pinus ponderosa jeffreyi*) and the Shasta Red Fir ($\hat{S}$) (*Abies magnifica shastensis*).

Occasional patches of timberland-chaparral may be found within the type or as an understory. Among such species are the following:

Greenleaf Manzanita (Ap) (*Arctostaphylos patula*)
Pinemat Manzanita (An) (*Arctostaphylos nevadensis*)
Snowbrush (Cco) (*Ceanothus cordulatus*)
Chinquapin (Cs) (*Castanopsis sempervirens*)
Bitter Cherry (Pe) (*Prunus emarginata*)

Fir Types (Faber's #22)

The most extensive forests in Sequoia National Park are the fir stands. More than 54,000 acres of fir type are found in the park, with less than 10 percent of the stand occurring in the Kern drainage. It has been very interesting to notice the irregularities in vegetational distribution in the Kern area, not the least of which is the lack of fir forest.

The two species of fir in the park are:

White Fir ($\hat{W}$) (*Abies concolor*)
Shasta Red Fir ($\hat{S}$) (*Abies magnifica shastensis*)

Of all the Red Fir that I have examined throughout the park, I have yet to find a single individual of the pure Red Fir (*Abies magnifica*).

MISCELLANEOUS TIMBER TYPES

The miscellaneous types of timber growth are separated into two general divisions: (1) Limber Pine-Pinyon Pine-Juniper, and (2) Lodgepole.

Limber Pine - Pinyon - Juniper (Faber's #22)

Stands of Limber Pine (L) (*Pinus flexilis*), Pinyon (P) (*Pinus cembroides monophylla*), and Sierra Juniper (Jo) (*Juniperus occidentalis*) are all classed under one head.

These trees are found in very scattered localities and cover limited areas.

The Pinyon is found on the walls of Kern Canyon between Laurel Creek and a point one-half mile above Rock Creek.

The Juniper occurs at nearly all points on the walls of Kern Canyon, and is usually dwarfed and associated with the Curlleaf Mountain Mahogany (Cl) (*Cercocarpus ledifolius*).

The Limber Pine is found in the mouth of Whitney Creek in the Kern, and again on the edge of Chagoopa Plateau where only one individual occurs.

Lodgepole Types (Dixon's #323)

Wherever the Lodgepole Pine (L) (*Pinus contorta murrayana*) occurs in pure or mixed stands that are not truly subalpine in character, it is mapped under this type.

This type is usually found surrounding meadows and in canyon bottoms.

SUGAR PINE TYPES

Where present up to 15 percent or more of the mixed stand, Sugar Pine (S) (*Pinus lambertiana*) is mapped within the type, disregarding its presence when coloring the type.

Similar treatment was given to the Western White Pine (W) (*Pinus monticola*) except where it was subalpine in character. This pine is found in a pure stand in only one or two places in the park, while the Sugar Pine never occurs pure.

SUBALPINE TREE TYPES

Subalpine tree stands are by definition semi-barren and dwarfed. This is true in the larger portion of the subalpine type as mapped throughout the park, but many acres are not only not semi-barren but are good sized stands of upright timber.

The Subalpine falls into two classifications: the Lodgepole White Pine Types and the Foxtail, Whitebark Pine Types.

Lodgepole-White Pine Types (Dixon's #322)

More than 8,000 acres of forest in the park are included in this category. This type is usually found to occur at slightly lower elevations than the Foxtail-Whitebark Pine type. It includes any of the following species:

Lodgepole Pine (L) (*Pinus contorta murrayana*)
Western White Pine (W) (*Pinus monticola*)
Shasta Red Fir (S) (*Abies magnifica shastensis*)
Sierra Juniper (Jo) (*Juniperus occidentalis*)

Foxtail-Whitebark Pine Types (Dixon's #322)

Of the 75,000 acres of Subalpine types in the park, more than 67,000 acres are included in this type.

In the Sierra north of our boundaries the Whitebark Pine is considered the typical High Sierra tree. It is quite different in Sequoia National Park where the Foxtail Pine is abundant and the Whitebark Pine is limited to the very highest parts of the Headwaters of the Kern.

The two species that make up this type are the Foxtail Pine (Fp) (*Pinus balfouriana*) and the Whitebark Pine (W) (*Pinus albicaulis*).

LEGEND

 Barren

 Grasslands

 Cultivated

Shrub Types

 Sagebrush

 Chamise

 Chaparral

 Timberland-Chaparral

Woodland Types

  Woodland-Chaparral

 Woodland-Grassland

 Woodland

Main Timber Types

 Pine Types

 Pine-Fir Types

 Fir Types

 Miscellaneous Types

 Lodgepole Pine

 Sequoia Types

Subalpine Tree Types

 Lodgepole-White Pine Types

 Foxtail-Whitebark Pine Types

 Semi-barren

SPECIES LIST

(Note: Scientific names are in accord with "A Manual of the Flowering Plants of California" by Willis Linn Jepson).

Herbaceous Species:

G r Grasslands (dry)
Mdw Meadows or wet grasslands

Shrub Species:

Af	Adenostoma fasciculatum	Chamise
Ama	Arctostaphylos mariposa	Mariposa Manzanita
An	Arctostaphylos nevadensis	Pinemat Manzanita
Ap	Arctostaphylos patula	Greenleaf Manzanita
Apa	Arctostaphylos pastillosa	Whiteleaf Manzanita
Atr	Artemisia tridentata	Common Sagebrush
Av	Arctostaphylos viscida	Sticky Manzanita
Cb	Cercocarpus betuloides	Birchleaf Mountain Mahogany
Cc	Ceanothus cuneatus	Buckbrush
Cd	Ceanothus divaricatus	Chaparral Whitethorn
Cco	Ceanothus cordulatus	Snowbrush
Cl	Cercocarpus ledifolius	Curlleaf Mountain Mahogany
Cs	Castanopsis sempervirens	Sierra Chinquapin
Ec	Eriodictyon californicum	California Yerba Santa
Hdd	Holodiscus discolor dumosa	California Meadowsweet
Pe	Prunus emarginata	Bitter Cherry
Qc	Quercus chrysolepis	Scrub Canyon Live Oak
Qd	Quercus dumosa	California Scrub Oak
Qgs	Quercus garryana semota	Kaweah Oak
Qw	Quercus wislizenii	Scrub Interior Live Oak
Sx	Salix sp.	Willow
Yw	Yucca whipplei	Yucca

Woodland Tree Species

<u>A</u>	Alnus rhombifolia	White Alder
<u>A</u>	Populus tremuloides	Aspen
<u>B</u>	Populus trichocarpa	Black Cottonwood
<u>B</u>	Quercus kelloggii	California Black Oak
<u>C</u>	Quercus chrysolepis	Canyon Live Oak
<u>D'</u>	Quercus douglassii	Blue Oak
<u>F</u>	Populus fremontii	Fremont Cottonwood
<u>H</u>	Aesculus californica	California Buckeye
<u>L'</u>	Umbellularia californica	California Laurel
<u>M'</u>	Quercus morehus	Evergreen Black Oak
<u>S</u>	Platanus racemosa	Sycamore
<u>W</u>	Quercus wislizenii	Interior Live Oak

Commercial Tree Species

Br	<i>Sequoia gigantea</i>	Big Tree
I	<i>Libocedrus decurrens</i>	Incense Cedar
S	<i>Pinus lambertiana</i>	Sugar Pine
S	<i>Abies magnifica shastensis</i>	Shasta Red Fir
W	<i>Abies concolor</i>	White Fir
W'	<i>Pinus monticola</i>	Western White Pine
Y	<i>Pinus ponderosa</i>	Ponderosa Pine
J	<i>Pinus ponderosa jeffreyi</i>	Jeffrey Pine

Miscellaneous and Alpine Tree Species

Fp	<i>Pinus balfouriana</i>	Foxtail Pine
Jo	<i>Juniperus occidentalis</i>	Sierra Juniper
L	<i>Pinus contorta murrayana</i>	Lodgepole Pine
Lp	<i>Pinus flexilis</i>	Limber Pine
P	<i>Pinus cembroides monophylla</i>	Singleleaf Piñon
Wp	<i>Pinus albicaulis</i>	Whitebark Pine
N	<i>Torreya californica</i>	California Nutmeg

Type Map

Omitted

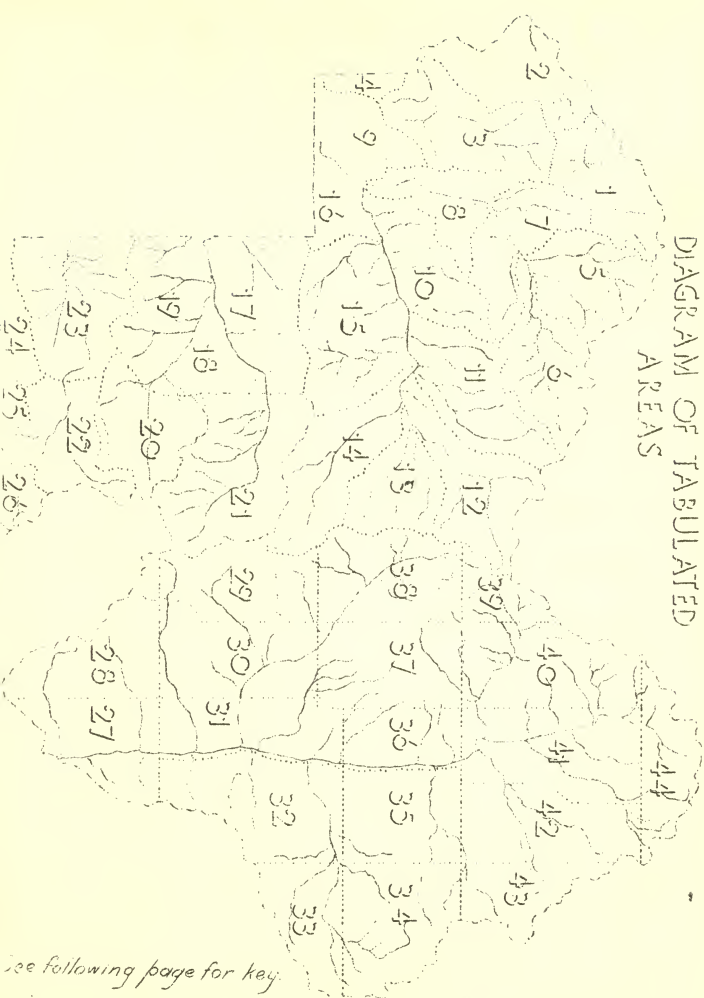
Type Map

Omitted

VEGETATIVE-TYPE - SEQUOIA NATIONAL PARK, CALIF.
AREA IN ACRES

TYPES	Little	South	East	Middle	Marble	North	Totals	Semi-
	Kern	Fork	Fork	Fork	Fork	Fork	barren	
Barren	75097.60	134.40	211.20	761.60	1497.60	15366.40	5254.40	98496.00
Grasslands	4396.00	51.20	44.80	704.00	384.00	1011.20	556.80	7738.80
Cultivated					19.20			32.00
Shrub Types								
Chamise				70.40	428.80	8025.60	627.20	7353.60
Chaparral				806.40	2790.40	2246.40	19.20	1593.60
Timberland-Chaparral	1715.20	230.40	70.40	313.60	480.00	4300.80	499.20	51.20
Woodland Types								
Woodland Chaparral					108.80	697.60	627.20	454.40
Woodland Grassland				238.00	44.80	2009.60	185.60	2412.80
Woodland				2726.40	3987.20	10867.20	1075.20	4454.40
Main Timber Types								
Sequoia Types								
Pine Types	12102.00	179.20	384.00	1440.00	4492.00	5420.80	3456.00	5043.20
Pine-Fir Types	5996.80		569.60	2630.40	3123.20	7046.40	6329.60	28950.00
Fir Types	4512.00	2041.60	1587.20	7091.20	9952.00	12384.00	9644.80	6931.20
Misc. Timber Types	17427.20	377.60	160.00	4467.20	2662.40	972.80	1824.00	51.20
Subalpine Tree Types								
Lodgepole-White Pine								
Types	6483.20				217.60	198.40	1196.80	8096.20
Porter-Whitebark Pine								
Types	60877.20	243.20		742.40	1548.80	3238.40	518.40	67168.40
Lakes								
	2860.80	12.80	6.40	64.00	25.60	268.80	172.80	3411.20
TOTALS	191968.00	3270.40	3923.20	24134.40	34630.40	75717.60	31516.80	32441.60
Area in square miles	299.95	5.11	6.13	37.71	54.11	118.34	52.37	50.69
								624.41
								38.54

DIAGRAM OF TABULATED AREAS



See following page for key.

KEY TO TABULATED AREAS BY DRAINAGES *

Kaweah River Drainage

North Fork

1. Dorst Creek
2. Pine Ridge
3. Yucca Creek
4. Advance Area

Marble Fork

5. Clover-Silliman Creeks
6. Tokopah Valley
7. Halstead Creek
8. Marble Falls

Middle Fork

9. Fry's Point
10. Moro Rock
11. Alta Meadow
12. River Valley
13. Granite Creek
14. Cliff Creek
15. Castle-Dome-Paradise Creeks
16. Milk Ranch Peak

East Fork

17. Atwell Mill
18. Tar Cap
19. Eden Area
20. Hockett Meadows
21. Mineral King (outside of park boundaries)

South Fork

22. South Fork Meadows
23. Clough Cave

Tule River Drainage

24. Dillon Wood
25. Summit Lake

Little Kern River Drainage

26. Quinn Country

Kern River Drainage

27. Kern Station
28. Coyote Pass
29. Franklin Pass
30. Moraine Lake
31. Chagoopa Falls
32. Kern Hot Springs
33. Siberian Pass
34. Mt. Langley
35. Crabtree Meadow
36. Red Spur
37. Kaweah Basin
38. Big Arroyo
39. Triple Divide Peak
40. Milestone
41. Tyndall Creek
42. Wright Lakes
43. Wallace Lake
44. Diamond Mesa

EXPLANATION OF MEASUREMENTS

The area of the vegetative-types was determined by measuring the area of each type on the type map. The planimeter used was graduated in hundredths of square inches. Since the map was on a scale of one inch to the mile, each hundredth was the equivalent of 6.4 acres.

The error involved in measuring small areas by this method is quite appreciable, as will be judged. However, to average the tendency toward errors, each type was circumscribed three times with the planimeter and the resulting figure divided by three.

Many of the meadows throughout the park are so located that they are an important factor in use of pack-stock and resultant location of camp sites. Many meadows, because of their importance, have been delineated on the type map, although they have been exaggerated to do so. In many cases such meadows are tabulated as having a coverage of 6.4 acres (this being the smallest unit measurable with the instrument used). In the final measurement of all meadow types due account was taken of the above exaggeration and sufficient acreage was subtracted from larger meadows to balance the summary.

Although the total area of the park is stated as 604 square miles, my measurements, made three times, have given the total area as 624 square miles. It is possible that sufficient error has crept into the measurements to account for this difference, but I feel that a re-measurement of the park map with a more accurate instrument will closely approach the larger figure.

From the above discussion it will thus be evident that the use of the decimal values in a statement of areas of vegetative-types as given in this report is misleading and erroneous; however, it has been necessary, from the nature of the case, to use the decimal.

1. DORST CREEK

8870.40 Acres

	<u>Type Total</u>	<u>Sub- Total</u>	<u>Content</u>	<u>Semi- Barren</u>
<u>Barren</u>	96.00			
Ba			96.00	
<u>Grasslands</u>	140.80			
Mdw			140.80	
<u>Shrub Types</u>	6.40			
<u>Timberland Chaparral</u>		6.40		
Ap Pe Cco			6.40	
<u>Main Timber Types</u>	3627.20			
<u>Pine Types</u>		1350.40		
J			32.00	
JAp			1318.40	
Semi-Barren				64.00
<u>Pine-Fir Types</u>		947.20		
JS			44.80	
JWS			19.20	
JWI			658.20	
SJW Ap			211.20	
<u>Fir Types</u>		6144.00		
S			1824.00	
F			44.80	
Semi-Barren				19.20
SW			1708.80	
SW			716.80	
SW			1849.60	
Semi-Barren				83.20
<u>Sequoia Types</u>		134.40		
Br F			76.80	
Br SW			57.60	
<u>Miscellaneous</u>		51.20		
L			19.20	
LS			32.00	

2. PINE RIDGE

9824.00 Acres

	Type <u>Total</u>	Sub - <u>Total</u>	<u>Content</u>	<u>Semi- Barren</u>
<u>Barren</u>	38.40			
Ba			38.40	
<u>Shrub Types</u>	3475.20			
<u>Chamise</u>		2368.00		
Af			2124.80	
Af Qgs			83.20	
Af Gr			160.00	
<u>Chaparral</u>		1094.40		
Cb			185.60	
Cb Cc			569.60	
Qgs Cb			57.60	
H Qgs			230.40	
Ama			51.20	
<u>Timberland-Chaparral</u>		12.80		
BAp Gr			12.80	
<u>Woodland Types</u>	3251.20			
<u>Woodland-Grassland</u>		1664.00		
D' Gr			652.80	
B Gr			1011.20	
<u>Woodland</u>		1587.20		
B			38.40	
CB			499.20	
C			838.40	
WCBS			211.20	
<u>Main Timber Types</u>	3059.20			
<u>Pine Types</u>		1452.80		
JI			44.80	
Y			6.40	
YB			179.20	
SY			499.20	
SYB			204.80	
SYI			32.00	
SYIB			57.60	
YIB			268.80	
YI			160.00	
<u>Pine-Fir Types</u>		1094.40		
SYW			1017.60	
SYWI			32.00	
SWI			44.80	
<u>Fir Types</u>		140.80		
SW			38.40	
SW			102.40	
<u>Sequoia Types</u>		371.20		
B ₇ W			147.20	
B ₇ SW			224.00	

3. YUCCA CREEK

12051.20 Acres

	Type <u>Total</u>	Sub- <u>Total</u>	<u>Content</u>	Semi- <u>Barren</u>
<u>Barren</u>	38.40			
Ba			38.40	
<u>Cultivated</u>	12.80		12.80	
<u>Shrub Types</u>	3993.60			
<u>Chamise</u>		3462.40		
Af			2598.40	
Semi-Barren				123.00
Af Cb			179.20	
Af Ama			499.20	
Af Gr			185.60	
<u>Chaparral</u>		499.20		
Cb			198.40	
Cb Cd			128.00	
Cb Gr			32.00	
Cb Qgs			51.20	
HQd			89.60	
<u>Timberland-Chaparral</u>		32.00		
Ap Pe Cco			32.00	
<u>Woodland Types</u>	3904.00			
<u>Woodland-Chaparral</u>		454.40		
CCb			313.60	
CCd Ama			140.80	
<u>Woodland-Grassland</u>		736.00		
D ⁺ Gr			320.00	
B Gr			32.00	
C Gr			243.20	
C Gr Ec			140.00	
<u>Woodland</u>		2713.60		
C			2086.40	
Semi-Barren				70.40
CB			396.80	
CBS			230.40	
<u>Main Timber Types</u>	4102.40			
<u>Pine Types</u>		2233.60		
J			140.80	
Y			313.60	
SY			608.00	
Semi-Barren				6.40
JB			19.20	
JAp			25.60	
SJD			57.60	
SJCB			38.40	
SJC			19.20	
YB			691.20	
SYB			64.00	

3. YUCCA CREEK Cont'd

<u>Main Timber Types</u> Cont'd	<u>Type</u> <u>Total</u>	<u>Sub-</u> <u>Total</u>	<u>Content</u>	<u>Semi-</u> <u>Barren</u>
<u>Pine Types</u> Cont'd				
YC			51.20	
YC BAv			204.80	
Semi-Barren				76.30
<u>Pine-Fir Types</u>		1222.40		
SJF			544.00	
SJF			569.60	
Semi-Barren				32.00
JVI			108.80	
<u>Fir Types</u>		646.40		
F			25.60	
S _u			620.80	
Semi-Barren				38.40

4. ADVANCE AREA

1696.00 Acres

	<u>Type-</u> <u>Total</u>	<u>Sub-</u> <u>Total</u>	<u>Content</u>	<u>Semi-</u> <u>Barren</u>
<u>Shrub Types</u>	1523.20			
<u>Chenise</u>		1523.20		
Af			1465.60	
Af Ama			57.60	
<u>Woodland Types</u>	166.40			
<u>Woodland-Grassland</u>		12.80		
D' Gr			12.80	
<u>Woodland-Stream</u>		153.60		
C			153.60	
Semi-Barren				64.00
<u>Main Timber Types</u>	6.40			
<u>Pine Types</u>		6.40		
Y			6.40	

5. CLOVER-SILLIMAN CREEKS

8736.00 Acres

	<u>Type Total</u>	<u>Sub- Total</u>	<u>Content</u>	<u>Semi- Barren</u>
<u>Barren</u>	390.40			
Ba			390.40	
<u>Grassland</u>	307.20			
Mdw			307.20	
<u>Shrub Types</u>	172.80			
<u>Timberland-Chaparral</u>		172.80		
Ap			160.00	
Sx			12.80	
<u>Main Timber Types</u>	6931.20			
<u>Pine Types</u>		576.00		
J			576.00	
<u>Pine-Fir Types</u>		1331.20		
JF			249.60	
Semi-Barren				76.80
SJF			1081.60	
Semi-Barren				19.20
<u>Fir Types</u>		3910.40		
S			2560.00	
Semi-Barren				6.40
W			243.20	
Semi-Barren				38.40
SF			302.40	
SW			1004.80	
<u>Miscellaneous</u>		1113.60		
L			236.80	
LS			876.80	
<u>Subalpine Tree Types</u>	889.60			
<u>Foxtail-Whitebark Pine Types</u>		64.00		
Fp			57.60	
Wp			6.40	
<u>Lodgepole-White Pine Types</u>		825.60		
LF			76.80	
W			544.00	
SW			204.80	
<u>Lakes</u>	44.80		44.80	

6. TOKOPAH VALLEY

9459.20 Acres

	Type Total	Sub- Total	Content	Semi- Barren
<u>Barren</u>	4838.40			
Ba			4838.40	
<u>Grasslands</u>	83.20			
Mdw			64.00	
Gr			19.20	
<u>Shrub Types</u>	256.00			
<u>Timberland-Chaparral</u>		256.00		
Ap Cco			64.00	
Cs			38.40	
Sx			153.60	
<u>Main Timber Types</u>	3340.80			
<u>Pine Types</u>		371.20		
J			243.20	
J Jo Ap			128.00	
<u>Pine-Fir Types</u>		281.60		
S J W			51.20	
L J W			76.80	
SJ W Ap Cco Cs			153.60	
<u>Fir-Types</u>		1888.00		
S			755.20	
Semi-Barren				140.80
S W			192.00	
S W			19.20	
S W'			588.80	
Semi-Barren				76.80
S Ap Cco Cs			332.80	
<u>Miscellaneous</u>		800.00		
L			230.40	
L W'			224.00	
S L			102.40	
L Sx			51.20	
L Gr Sx			32.00	
Jo J			160.00	
<u>Subalpine Tree Types</u>	812.80			
<u>Foxtail-Whitebark Pine Types</u>		441.60		
F _p			403.20	
W _p			38.40	
<u>Lodgepole-White Pine Types</u>		371.20		
L			6.40	
W'			179.20	
SW'			185.60	
<u>Lakes</u>	128.00		128.00	

7. HALSTEAD CREEK

9004.30 Acres

	<u>Type Total</u>	<u>Sub- Total</u>	<u>Content</u>	<u>Semi- Barren</u>
<u>Barren</u>	12.80			
Ba			12.80	
<u>Grasslands</u>	147.20			
Mdw			147.20	
<u>Shrub Types</u>	70.40			
<u>Timberland-Chaparral</u>		70.40		
Pe			6.40	
Pe Gr			25.60	
Cs			6.40	
Cco Gr Sx			19.20	
Sx			12.80	
<u>Main Timber Types</u>	8761.60			
<u>Pine Types</u>		832.00		
J			243.20	
Semi-Barren				12.80
J B			25.60	
Semi-Barren				12.80
J Ap			76.80	
J Ap Cco			76.80	
SY			409.60	
Semi-Barren				25.60
<u>Pine-Fir Types</u>		3961.60		
SY ^W			1075.20	
Semi-Barren				64.00
SYJ ^W			249.60	
Semi-Barren				147.60
SJ ^W			2336.00	
J ^W			57.60	
J ^W Ap			115.20	
Semi-Barren				12.80
J ^W Ap Cco			76.80	
J ^S			51.20	
<u>Fir Types</u>		3315.20		
S			1555.20	
W			1056.00	
Semi-Barren				108.80
S ^W			544.00	
Semi-Barren				64.00
S ^W			160.00	

	Type <u>Total</u>	Sub- <u>Type</u>	<u>Content</u>	Semi- <u>Barren</u>
<u>Main Timber Types</u> Cont'd				
<u>Sequoia Types</u>		582.40		
Pr S ^W			582.40	
<u>Miscellaneous</u>		70.40		
L			70.40	
<u>Subalpine Tree Types</u>	12.80			
<u>Foxtail-Whitelark Pine Types</u>		12.80		
Ff			12.80	

8. MARBLE FALLS

6316.37 Acres

	<u>Type Total</u>	<u>Sub- Total</u>	<u>Content</u>	<u>Semi- Barren</u>
<u>Barren</u>	12.80			
Ba			12.80	
<u>Grassland</u>	19.20			
Mdw			19.20	
<u>Shrub Types</u>	646.40			
<u>Chamise</u>		627.20		
Af			550.40	
Af Yw			76.80	
Semi-Barren				25.60
<u>Chaparral</u>		19.20		
Cb			19.20	
<u>Woodland Types</u>	1303.00			
<u>Woodland-Chaparral</u>		627.20		
C Cb			294.40	
CCL Cd			166.40	
Semi-Barren				89.60
CCh Yw			134.40	
CH Cb			32.00	
<u>Woodland-Grassland</u>		185.60		
D' Gr			160.00	
B Gr			25.60	
<u>Woodland</u>		1075.20		
B			38.40	
CB			57.60	
C			857.60	
Semi-Barren				153.60
CWAS			121.80	
<u>Main Timber Types</u>	3750.40			
<u>Pine Types</u>		1516.30		
J			12.80	
Semi-Barren				12.80
Y			448.00	
YB			172.80	
SY			774.40	
Semi-Barren				25.60
JAp			12.80	
JB			96.00	
Semi-Barren				64.00
<u>Pine-Fir Types</u>		755.20		
SYW			492.80	
SJW			262.40	

	<u>Type</u> <u>Total</u>	<u>Sub-</u> <u>Total</u>	<u>Content</u>	<u>Semi-</u> <u>Barren</u>
<u>Main Timber Types</u> Cont'd				
<u>Fir Types</u>		521.20		
W			19.20	
SW			512.00	
<u>Sequoia Types</u>		947.20		
Br SW			947.20	
Semi-Barren				32.40

9. FRY'S POINT

6556.00 Acres

	<u>Type</u> <u>Total</u>	<u>Sub-</u> <u>Total</u>	<u>Content</u>	<u>Semi-</u> <u>Barren</u>
<u>Shrub Types</u>	4192.00			
<u>Chamise</u>		4153.60		
Af			3808.00	
Semi-Barren				192.00
Af Ama			256.00	
Af Yw			89.60	
Semi-Barren				12.80
<u>Chaparral</u>		33.40		
Ama			12.80	
Cb			12.80	
Cb Yw			12.80	
<u>Woodland Types</u>	2451.20			
<u>Woodland-Chaparral</u>		33.40		
CCb			25.60	
CCB H			12.80	
<u>Woodland-Grassland</u>		972.00		
D' Gr			934.40	
D Gr			38.40	
<u>Woodland</u>		1440.00		
F			121.60	
G			1036.80	
Semi-Barren				142.80
CWAS			153.60	
CWS			128.00	
<u>Main Timber Types</u>	12.80			
<u>Pine Types</u>		12.80		
Y			12.80	

10. MORO ROCK

8673.40 Acres

	<u>Type Total</u>	<u>Sub- Total</u>	<u>Content</u>	<u>Semi- Barren</u>
<u>Barren</u>	64.00			
Ba			64.00	
<u>Grasslands</u>	51.20			
Mdw			44.80	
Gr			6.40	
<u>Shrub Types</u>	1543.80			
<u>Chamise</u>		1376.00		
Af			275.20	
Af Cb			211.20	
Semi-Barren				32.00
Af Ama			389.60	
<u>Chaparral</u>		57.60		
Cb			57.60	
<u>Timberland-Chaparral</u>		115.20		
Ap Cco			38.40	
Ap Cco Gr			76.80	
Semi-Barren				57.60
<u>Woodland Types</u>	3225.60			
<u>Woodland-Chaparral</u>		153.60		
C Ob			108.80	
C Ama			44.80	
<u>Woodland-Grassland</u>		582.40		
D' Gr			377.60	
B Gr			204.80	
<u>Woodland</u>		2439.60		
B			121.60	
C B			160.00	
Semi-Barren				19.20
C			2112.00	
Semi-Barren				193.40
C b S			51.20	
C w S			44.80	
<u>Main Timber Types</u>	3732.40			
<u>Pine Types</u>		320.00		
J			12.80	
Y			25.60	
SY			25.60	
SYCB			147.20	
JAp			25.60	
SYAp			33.20	
Semi-Barren				64.00

	Type <u>Total</u>	Sub- <u>Total</u>	<u>Content</u>	Semi- <u>Barren</u>
<u>Main Timber Types</u> Cont'd				
<u>Pine-Fir Types</u>		1932.27		
SJW			1793.47	
Semi-Barren				198.87
JW Ap Cco			134.47	
Semi-Barren				51.27
<u>Fir Types</u>		671.67		
S			25.67	
W			6.47	
Semi-Barren				6.47
SW			83.27	
SW			96.77	
Semi-Barren				6.47
W Ap Cco			281.67	
Semi-Barren				33.27
SW			178.87	
<u>Sequoia Types</u>		928.77		
Pr S W			928.77	
<u>Subalpine Tree Types</u>	6.47			
<u>Foxtail-Whitebark Pine Types</u>		6.47		
Fr			6.47	

11. ALTA MEADOW

11229.60 Acres

	Type <u>Total</u>	Sub- <u>Total</u>	<u>Content</u>	<u>Semi- Barren</u>
<u>Barren</u>	3437.00			
Ba			3437.00	
<u>Grasslands</u>	153.60			
Mdw			89.60	
Sz Gr			64.00	
<u>Shrub Types</u>	1369.60			
<u>Chaparral</u>		634.80		
Cb Av			123.00	
Cb Cc			103.80	
Cb Cc Qgs Ap			102.40	
Ama			102.40	
Ama Qgs			243.20	
<u>Timberland-Chaparral</u>		634.80		
Ap			12.30	
Ap Cco			44.30	
Semi-Barren				12.80
Ap Cco Cs			576.00	
Pe			19.20	
Pe Sx			32.00	
<u>Woodland Types</u>	1120.00			
<u>Woodland-Chaparral</u>		57.60		
Av B			57.60	
<u>Woodland</u>		1062.40		
B			64.00	
CB			300.30	
Semi-Barren				12.80
C			697.60	
Semi-Barren				44.30
<u>Main Timber Types</u>	4423.30			
<u>Pine Types</u>		1811.20		
J			12.80	
Y			730.30	
SY			128.00	
SYI			531.20	
YB			275.20	
YBAp			83.20	
<u>Pine-Fir Types</u>		1049.60		
SYF			57.60	
SJW			992.00	

	Type <u>Total</u>	Sub- <u>Total</u>	<u>Content</u>	Semi- <u>Barren</u>
<u>Main Timber Types</u> Cont'd				
<u>Fir Types</u>		1563.00		
S			603.00	
W			371.20	
Semi-Barren				51.20
SW			204.80	
S Ap Cco			211.20	
W Ap Cco			172.80	
<u>Subalpine Tree Types</u>	633.60			
<u>Foxtail-Whitebark Pine Types</u>		633.60		
Fp			620.80	
Wp			12.80	
<u>Lakes</u>	96.00		96.00	

12. RIVER VALLEY

11264.00 Acres

	<u>Type</u> <u>Total</u>	<u>Sub-</u> <u>Total</u>	<u>Content</u>	<u>Semi-</u> <u>Barren</u>
<u>Barren</u>	4998.40			
Ba			4998.40	
<u>Grasslands</u>	224.00			
Mdw			121.60	
Sx Gr			102.40	
Semi-Barren				102.40
<u>Shrub Types</u>	1760.00			
<u>Chaparral</u>		160.00		
Amo			160.00	
<u>Timberland-Chaparral</u>		1600.00		
Ap			140.80	
Ap Cs			115.20	
Ap Cco			19.20	
Ap Pe Cs			499.20	
Semi-Barren				25.60
Cc Cs			51.20	
Atr Ap			140.80	
Cs			32.00	
Pe Cco			57.60	
Av			33.40	
Sx			505.60	
<u>Woodland Types</u>	576.00			
<u>Woodland</u>		576.00		
B			19.20	
CB			172.80	
C			384.00	
<u>Main Timber Types</u>	3027.20			
<u>Pine Types</u>		780.80		
J			44.80	
JB Ap			217.60	
Y			32.00	
YB			390.40	
Semi-Barren				57.60
YCE			96.00	
<u>Pine-Fir Types</u>		435.20		
SJW			102.40	
SYW			25.60	
SYWI			307.20	

	Type Total	Sub- Total	Content	Semi- Barren
<u>Main Timber Types</u> Cont'd				
<u>Fir Types</u>		1254.40		
S			505.60	
F			358.40	
SW			64.00	
SIB			294.40	
S Ap Cs			32.00	
<u>Miscellaneous</u>		556.80		
Jo Ap			320.00	
Semi-Barren				294.40
Jo Ap Cs Atr			102.40	
L			134.40	
<u>Subalpine Tree Types</u>	550.40			
<u>Foxtail-Whitethark Pine Types</u>		364.30		
Fp			268.30	
Wp			70.40	
Fp Wp			25.60	
<u>Lodgepole-White Pine Type</u>		135.60		
Jo			38.40	
W			108.80	
S			19.20	
L			19.20	
<u>Lakes</u>	128.00		128.00	

13. GRANITE CREEK

6169.60 Acres

	Type Total	Sub- Total	Content	Semi- Barren
<u>Barren</u>	2297.60			
Ba			2297.60	
<u>Grasslands</u>	38.40			
Mdw			38.40	
<u>Shrub Types</u>	243.20			
<u>Timberland-Chaparral</u>		243.20		
Ap			19.20	
Ap Pe Cs			96.00	
Sx			128.00	
<u>Woodland Types</u>	102.40			
<u>Woodland</u>		102.40		
CB			102.40	
<u>Main Timber Types</u>	2112.00			
<u>Pine Types</u>		147.20		
J			38.40	
Semi-Barren				19.20
JB Ap			64.00	
J Ap			44.80	
<u>Pine-Fir Types</u>		832.00		
S J F			832.00	
<u>Fir Types</u>		1126.40		
S			376.30	
W			12.80	
S W			236.30	
<u>Sequoia Types</u>		6.40		
Br W			6.40	
<u>Subalpine Tree Types</u>	1337.60			
<u>Foxtail-Whitebark Pine Types</u>		1337.60		
Fp			1337.60	
<u>Lakes</u>	38.40		38.40	

14. CLIFF CREEK

12320.00 Acres

	Type Total	Sub- Total	Content	Semi- Barren
<u>Barren</u>	3680.00			
Ba			3680.00	
<u>Grasslands</u>	390.40			
Mdw			6.40	
Gr			6.40	
Sx Gr			377.60	
Semi-Barren				332.80
<u>Shrub Types</u>	1248.00			
<u>Timberland-Chaparral</u>		1248.00		
Ap			19.20	
Ap Cco			217.60	
Ap Cco Cs			550.40	
Semi-Barren				38.40
Ap Cco Cs Pe			57.60	
Sx			64.00	
Pe Sx Cco			32.00	
Sx Ap Pe Cco			268.80	
Semi-Barren				19.20
Cs			38.40	
<u>Woodland Types</u>	76.80			
<u>Woodland</u>		76.80		
L			12.80	
CB			64.00	
<u>Main Timber Types</u>	6030.00			
<u>Pine Types</u>		396.80		
J			134.40	
Semi-Barren				12.80
SY			102.40	
SJ			160.00	
<u>Pine-Fir Types</u>		1235.20		
SYW			134.40	
SJW			723.20	
SJWI			326.40	
JW			51.20	
<u>Fir Types</u>		3635.20		
S			2464.00	
Semi-Barren				352.00
W			153.60	
SW			870.40	
SW'			147.20	

	Type <u>Total</u>	Sub- <u>Total</u>	<u>Content</u>	Semi- <u>Barren</u>
<u>Main Timber Types</u> Cont'd				
<u>Sequoia Types</u>		396.30		
B + W			38.40	
B + S W			217.60	
B + J W			140.30	
<u>Miscellaneous</u>		416.00		
Jo			364.80	
Semi-Barren				364.80
L			51.20	
<u>Subalpine Tree Types</u>	838.40			
<u>Foxtail-Whitbark Pine Types</u>		838.40		
Fp			825.60	
W			12.80	
<u>Lakes</u>	6.40		6.40	

15. CASTLE-DOME-PARADISE CREEKS

15142.00 Acres

	Type Total	Sub- Total	Content	Semi- Barren
<u>Barren</u>	877.77			
Ba			877.77	
<u>Grasslands</u>	153.60			
Mdw			102.47	
Gr			51.20	
<u>Shrub Types</u>	1932.80			
<u>Chamise</u>		716.80		
Af			716.80	
<u>Chaparral</u>		376.40		
Ama Qgs Ap			51.20	
Ama Qgs			377.20	
Cb Cc			243.20	
Ch			179.20	
Ama			25.60	
<u>Timberland-Chaparral</u>		409.60		
Ap			76.80	
Pe			32.00	
Ap Pe			33.40	
Ap Pe Cco			38.40	
Ap Cco			224.00	
Semi-Barren				57.60
<u>Woodland Types</u>	4172.80			
<u>Woodland-Chaparral</u>		172.80		
C Ap			51.20	
C L' Cb			57.60	
<u>Woodland-Grassland</u>		211.20		
D' Gr			121.60	
D' Gr H			6.40	
B D' Gr			83.20	
<u>Woodland</u>		3352.80		
B			83.20	
CB			1465.60	
C			2252.80	
Semi-Barren				83.20
C BA S			51.20	
<u>Main Timber Types</u>	3019.20			
<u>Pine Types</u>		1907.20		
J			115.20	
Y Semi-Barren			397.40	25.60
YB			332.80	
SY			601.60	
SYB			192.00	
SJ			172.80	
Semi-Barren	-43-			12.80
Y C B			102.40	

	Type <u>Total</u>	Sub- <u>Total</u>	<u>Content</u>	Semi- <u>Barren</u>
<u>Main Timber Types</u> Cont'd				
<u>Pine-Fir Types</u>		1561.60		
Y W Ap Pe			70.40	
Semi-Barren				6.40
S Y W			1216.00	
Semi-Barren				51.20
SJ W			256.00	
J W			19.20	
<u>Fir Types</u>		4193.40		
S			3270.40	
Semi-Barren				204.80
W			108.80	
S W			307.20	
S W			512.00	
Semi-Barren				76.80
<u>Sequoia Types</u>		352.00		
B T			6.40	
B T W			231.60	
B T S W			51.20	
B T Y W			12.80	
<u>Subalpine Tree Types</u>		70.40		
<u>Foxtail-Whitebark Pine Types</u>		70.40		
Fo			70.40	

16. MILK RANCH PEAK

4211.20 Acres

	<u>Type</u> <u>Total</u>	<u>Sub-</u> <u>Total</u>	<u>Content</u>	<u>Semi-</u> <u>Barren</u>
<u>Barren</u>	38.40			
Ba			38.40	
<u>Shrub Types</u>	2278.40			
<u>Chamise</u>		1779.20		
Af			1779.20	
<u>Chaparral</u>		499.20		
Cb			467.20	
Cb Cc			32.00	
<u>Woodland Types</u>	1849.60			
<u>Woodland-Chaparral</u>		339.20		
C Cb			128.00	
CH Cb			211.20	
<u>Woodland-Grassland</u>		243.20		
D' Gr			83.20	
D' Gr H			160.00	
<u>Woodland</u>		1267.20		
B			140.60	
CB			70.40	
CBS			25.60	
C			832.00	
Semi-Barren				140.80
CAS			64.00	
CWS			134.40	
<u>Main Timber Types</u>	44.80			
<u>Pine Types</u>		44.80		
SY			44.80	

17. ATWELL MILL10937.60 Acres

	<u>Type</u> <u>Total</u>	<u>Sub-</u> <u>Total</u>	<u>Content</u>	<u>Semi-</u> <u>Barren</u>
<u>Barren</u>	134.40			
Ba			134.40	
<u>Grasslands</u>	25.60			
Mdw			12.30	
Gr			12.30	
<u>Cultivated</u>	19.20		19.20	
<u>Shrub Types</u>	2649.60			
<u>Chamise</u>		428.80		
Af			172.30	
Af Ama			134.40	
C Af			121.60	
<u>Chaparral</u>		1996.80		
Cb			57.60	
Cb Cc			844.80	
Cb Ama			39.60	
Cb Apa			876.80	
Cb Ap			128.00	
<u>Timberland-Chaparral</u>		224.00		
Ap Cs			147.20	
Semi-Barren				12.80
Ap Cs Cco			76.80	
<u>Woodland Types</u>	1863.20			
<u>Woodland-Grassland</u>		44.30		
B Gr			44.30	
<u>Woodland</u>		1324.00		
B			38.40	
C			1702.40	
Semi-Barren				243.20
CS			44.80	
CYw			38.40	
<u>Main Timber Types</u>	6240.00			
<u>Pine Types</u>		2592.00		
Y			70.40	
YB			1611.20	
SY			172.80	
SJ			832.20	
Semi-Barren				76.80
SYI			172.80	
SJD			38.40	
SJI			243.20	

<u>Main Timber Types</u>	<u>Cont'd</u>	<u>Type</u> <u>Total</u>	<u>Sub-</u> <u>Total</u>	<u>Content</u>	<u>Semi-</u> <u>Barren</u>
<u>Pine-Fir Types</u>			614.40		
JW				172.80	
SJW				377.60	
SWYI				64.00	
<u>Fir Types</u>		1331.20			
S				345.60	
W	Semi-Barren			147.20	25.60
SW				428.80	
SWI	Semi-Barren			102.40	57.60
SW'				224.00	
W	Semi-Barren				32.00
W Ap Cco				32.00	
W Ap Cs Cco				51.20	
<u>Sequoia Types</u>		1702.40			
B+ SW				1459.20	
B+ W				236.80	
B+				6.40	

18. TAR GAP

	Type <u>Total</u>	Sub- <u>Total</u>	<u>Content</u>	Semi- <u>Barren</u>
<u>Barren</u>	6.40			
Ba			6.40	
<u>Shrub Types</u>	390.40			
<u>Chaparral</u>		185.60		
Cb Cc			185.60	
<u>Timberland-Chaparral</u>		204.80		
Ap			64.00	
Ap Cco			19.20	
Cs Ap Pe			70.40	
Ap B+ J			32.00	
Cs			19.20	
<u>Woodland Types</u>	812.80			
<u>Woodland</u>		312.80		
B			70.40	
C			742.40	
<u>Main Timber Types</u>	3340.80			
<u>Pine Types</u>		518.40		
SY			263.80	
SYIB Ap Cco			249.60	
<u>Pine-Fir Types</u>		1132.80		
SYW			51.20	
SJW			576.00	
JW			454.40	
JW Ap			51.20	
<u>Fir Types</u>		1228.80		
S			416.00	
SW			761.60	
SWI			51.20	
<u>Sequoia Types</u>		460.80		
BT SW			460.80	
<u>Subalpine Tree Types</u>	38.40			
<u>Foxtail-Whitebark Pine Types</u>		38.40		
Fp			38.40	

19. EDEN AREA10246.40 Acres

	<u>Type Total</u>	<u>Sub- Total</u>	<u>Content</u>	<u>Semi- Barren</u>
<u>Barren</u>	204.80			
3a			204.80	
<u>Grasslands</u>	108.80			
Mdw			108.80	
<u>Shrub Types</u>	608.00			
<u>Chaparral</u>		608.00		
Cb			64.00	
Cb Cc			179.20	
Cb Cc Av			364.80	
<u>Woodland Types</u>	1459.20			
<u>Woodland-Chaparral</u>		108.80		
Ccb			108.80	
<u>Woodland</u>		1350.40		
B			160.00	
C			1171.20	
Semi-Barren				51.20
CS			19.20	
<u>Main Timber Types</u>	7865.60			
<u>Pine Types</u>		1081.60		
J			76.80	
Y			281.60	
YB			243.20	
SY			480.00	
<u>Pine-Fir Types</u>		1203.20		
SYW			249.60	
SJW			889.60	
Semi-Barren				70.40
CBYW			64.00	
<u>Fir Types</u>		4121.60		
S			3558.40	
Semi-Barren				217.60
SW			352.00	
Semi-Barren				51.20
SW			211.20	
Semi-Barren				32.00
<u>Sequoia Types</u>		1004.80		
Br SW			1004.80	
Semi-Barren				57.60
<u>Miscellaneous</u>		454.40		
L			217.60	
LS			236.80	

20. HOCKETT MEADOWS

3357.60 Acres

	<u>Type Total</u>	<u>Sub- Total</u>	<u>Content</u>	<u>Semi- Barren</u>
<u>Barren</u>	1152.00			
Ba			1152.00	
<u>Grasslands</u>	249.60			
Mdw			193.40	
Gr			19.20	
Sx Gr			32.00	
<u>Shrub Types</u>	51.20			
<u>Timberland-Chaparral</u>		51.20		
Ap			12.80	
Ap Cco			33.40	
<u>Main Timber Types</u>	5651.20			
<u>Pine-Fir Types</u>		172.80		
JW			115.20	
JW Semi-Barren				38.40
JW Ap			57.60	
<u>Fir Types</u>		3270.40		
S			2752.00	
S Semi-Barren				19.20
SW			513.40	
<u>Miscellaneous</u>		2208.00		
L			2176.00	
L Jo			32.00	
<u>Subalpine Tree Types</u>	1723.00			
<u>Lodgepole-White Pine Types</u>		231.60		
LW			217.60	
L Fr			64.00	
<u>Foxtail-Whitebark Pine Types</u>		1446.40		
Fr			1446.40	
<u>Lakes</u>	25.60		25.60	

21. MINERAL KING AREA16915.20 Acres

	Type Total	Sub- Total	Content	Semi- Barren
<u>Barren</u>	5785.60			
Ba			5785.60	
<u>Grosslands</u>	403.20			
Mdw			64.00	
Sx Gr			339.20	
<u>Shrub Types</u>	1369.60			
<u>Timberland-Choparral</u>		1369.60		
Ap			70.40	
Pe			25.60	
Ap Pe			132.40	
Ap Cco			396.80	
Ap Cs Cco			153.60	
Semi-Barren				33.40
Ap Cs Cco Atr			166.40	
Ap Cco Atr			103.80	
Cs Cco			25.60	
Atr			179.20	
Ap Er J			38.40	
Sx			70.40	
<u>Main Timber Types</u>	6392.80			
<u>Pine Types</u>		499.20		
J			123.00	
Semi-Barren				64.00
S J			221.60	
S J I			89.60	
<u>Pine-Fir Types</u>		896.00		
S J W			396.00	
Semi-Barren				25.60
<u>Fir Types</u>		5024.00		
F			76.80	
S			3174.00	
Semi-Barren				89.60
S W			608.00	
Semi-Barren				25.60
S W'			985.60	
Semi-Barren				33.20
S Ap Cs Cco			249.60	
<u>Sequoia Types</u>		320.00		
B+ S W			320.00	
<u>Miscellaneous</u>		153.60		
Jo			147.20	
Semi-Barren				147.20
L			6.40	

	Type <u>Total</u>	Sub- <u>Total</u>	<u>Content</u>	Semi- <u>Barren</u>
<u>Subalpine Tree Types</u>	2291.20			
<u>Foxtail-Whitebark Pine Types</u>		2291.00		
Fp			2112.00	
S Fr			83.20	
W'			96.00	
<u>Lakes</u>	172.80		172.80	

22. SOUTH FORK MEADOWS9683.20 Acres

	<u>Type Total</u>	<u>Sub- Total</u>	<u>Content</u>	<u>Semi- Barren</u>
<u>Barren</u>	492.80			
Ba			492.80	
<u>Grasslands</u>	576.00			
Mdw			576.00	
<u>Shrub Types</u>	12.30			
<u>Timberland-Chaparral</u>		12.80		
Ap Cs Cco			12.80	
Semi-Barren				12.30
<u>Main Timber Types</u>	7795.20			
<u>Fir Types</u>		3872.00		
S			3110.40	
Semi-Barren				307.20
L ^S			761.60	
<u>Miscellaneous</u>		3923.20		
L			3923.20	
Semi-Barren				25.60
<u>Subalpine Tree Types</u>	742.40			
<u>Fortail-Whitebark Pine Types</u>		742.40		
Fp			742.40	
<u>Lakes</u>	64.00		64.00	

23. CLOUGH CAVE14451.20 Acres

	Type <u>Total</u>	Sub- <u>Total</u>	<u>Content</u>	Semi- <u>Barren</u>
<u>Barren</u>	263.80			
Ba			263.80	
<u>Grasslands</u>	128.00			
Mdw			96.00	
Gr			32.00	
<u>Shrub Types</u>	1177.60			
<u>Chamise</u>		70.40		
Af			70.40	
<u>Chaparral</u>		876.40		
Cb			51.20	
Cb Cc			416.00	
Cb Cc Cd			25.60	
Cb Qgs			313.60	
<u>Timberland-Chaparral</u>		370.80		
Ap			192.00	
Ap Cs			57.60	
Ap Cco Cs			51.20	
Semi-Barren				12.80
<u>Woodland Types</u>	3014.40			
<u>Woodland-Grassland</u>		283.00		
D' Gr			283.00	
<u>Woodland</u>		2736.40		
B			83.20	
BI			76.80	
Semi-Barren				6.40
CB			473.60	
C			1939.20	
Semi-Barren				236.80
CI			57.60	
SCBA			96.00	
<u>Main Timber Types</u>	9862.40			
<u>Pine Types</u>		1440.00		
J			33.20	
Y			243.20	
YB			339.20	
YIB			19.20	
SJ			236.80	
Semi-Barren				57.60
SJAp			518.40	
Semi-Barren				172.00

	Type <u>Total</u>	Sub- <u>Total</u>	<u>Content</u>	Semi- <u>Barren</u>
<u>Main Timber Types</u> Cont'd				
<u>Pine-Fir Types</u>		2630.40		
Y ^W			33.40	
SY ^W			57.60	
SJ ^W Ap			33.20	
SJ ^W			2272.00	
Semi-Barren				160.00
J ^W			179.20	
<u>Fir Types</u>		3219.20		
S			1971.20	
Semi-Barren				819.20
SS			192.00	
SW			646.40	
Semi-Barren				128.00
SL			134.40	
S ^W			256.00	
Semi-Barren				96.00
S ^W			19.20	
<u>Sequoiia Types</u>		2023.80		
B ^r ^W			25.60	
B ^r S ^W			1779.20	
B ^r SJ ^W			172.80	
B ^r SY ^W			51.20	
<u>Miscellaneous</u>		544.00		
L			544.00	
Semi-Barren				38.40

24. DILLON WOOD2790.40 Acres

	<u>Type</u> <u>Total</u>	<u>Sub-</u> <u>Total</u>	<u>Content</u>	<u>Semi-</u> <u>Barren</u>
<u>Grasslands</u>	25.60			
Mdw			25.60	
<u>Shrub Types</u>	70.40			
<u>Timberland-Chaparral</u>		70.40		
Cco Ap Cs			70.40	
<u>Main Timber Types</u>	2694.40			
<u>Pine Types</u>		384.00		
J			19.20	
J Ap			64.00	
Semi-Barren				64.00
SJ			64.00	
SJ Ap			236.80	
Semi-Barren				25.60
<u>Pine-Fir Types</u>		569.60		
SJv			300.80	
JS Ap Cco			268.80	
Semi-Barren				172.80
<u>Fir Types</u>		787.20		
S			416.00	
SW			160.00	
SW Ap Cco			135.60	
Semi-Barren				57.60
SW'			25.60	
<u>Sequoia Types</u>		839.60		
Br SW			839.60	
<u>Miscellaneous</u>		64.00		
L			64.00	

25. SUMMIT LAKE1132.20 Acres

	Type <u>Total</u>	Sub- <u>Total</u>	<u>Content</u>	Semi- <u>Barren</u>
<u>Barren</u>	211.20			
Ba			211.20	
<u>Grasslands</u>	19.20			
Mdw			19.20	
<u>Main Timber Types</u>	296.00			
<u>Fir Types</u>		300.00		
S			422.40	
S ^W Ap Cco			339.20	
LS			33.40	
<u>Miscellaneous</u>		96.00		
L			96.00	
<u>Lakes</u>	6.40		6.40	

26. QUINN COUNTRY3270.40 Acres

	<u>Type Total</u>	<u>Sub- Total</u>	<u>Content</u>	<u>Semi- Barren</u>
<u>Barren</u>	134.40			
Ba			134.40	
<u>Grasslands</u>	51.20			
Mdw			51.20	
<u>Shrub Types</u>	230.40			
<u>Timberland-Chaparral</u>		230.40		
Ap Cs Cco			192.00	
Semi-Barren				96.00
Ap Cs Atr			38.40	
<u>Main Timber Types</u>	2598.40			
<u>Pine Types</u>		179.20		
J			64.00	
Semi-Barren				44.80
SJ			115.20	
Semi-Barren				96.00
<u>Fir Types</u>		2041.60		
S			1875.20	
Semi-Barren				518.40
W			102.40	
Semi-Barren				19.20
LS			64.00	
<u>Miscellaneous</u>		377.60		
L			294.40	
LWA			83.20	
<u>Subalpine Tree Types</u>	243.20			
<u>Foxtail-Whitebark Pine Types</u>		243.20		
Fp			243.20	
<u>Lakes</u>	12.80		12.80	

27. KERN STATION

10432.00 Acres

	<u>Type Total</u>	<u>Sub- Total</u>	<u>Content</u>	<u>Semi- Barren</u>
<u>Barren</u>	57.60			
Ba			57.60	
<u>Grasslands</u>	108.80			
Mdw			44.80	
L Mdw			64.00	
<u>Shrub Types</u>	147.20			
<u>Timberland-Chaparral</u>		147.20		
Ap Cs Sx			147.20	
<u>Main Timber Types</u>	8915.20			
<u>Pine Types</u>		4563.20		
J			2464.00	
Semi-Barren				576.00
S J			684.80	
Semi-Barren				12.80
J Ap			1414.40	
Semi-Barren				928.00
<u>Pine-Fir Types</u>		2828.80		
JW			1964.80	
Semi-Barren				1030.40
S J W			249.60	
Semi-Barren				249.60
J S			614.40	
Semi-Barren				64.00
<u>Fir Types</u>		1164.80		
SW			524.80	
Semi-Barren				300.80
S L			640.00	
<u>Miscellaneous Types</u>		358.40		
L			262.40	
L D			96.00	
<u>Subalpine Tree Types</u>	1203.20			
<u>Foxtail-Whitebark Pine Types</u>		1203.20		
Fp			787.20	
Fp S			416.00	

23. COYOTE PASS10521.60 Acres

	Type <u>Total</u>	Sub- <u>Total</u>	<u>Content</u>	Semi- <u>Barren</u>
<u>Barren</u>	3948.80			
Ba			3948.80	
<u>Grasslands</u>	268.80			
Mdw			268.80	
<u>Main Timber Types</u>	1792.00			
<u>Pine Types</u>		371.20		
J			147.20	
J Ap			224.00	
Semi-Barren				12.80
<u>Pine-Fir Types</u>		6.40		
J S			6.40	
Semi-Barren				6.40
<u>Fir Types</u>		588.80		
S W'			499.20	
S L			89.60	
<u>Miscellaneous</u>		825.60		
L			825.60	
<u>Subalpine Tree Types</u>	4454.40			
<u>Lodgepole-White Pine Types</u>		352.00		
L			352.00	
<u>Foxtail-Whitebark Pine Types</u>		4102.40		
Fp			4102.40	
<u>Lakes</u>	57.60		57.60	

29. FRANKLIN PASS11238.40 Acres

	Type <u>Total</u>	Sub- <u>Total</u>	<u>Content</u>	Semi- <u>Barren</u>
<u>Barren</u>	4672.00			
Ba			4672.00	
<u>Grasslands</u>	268.80			
Mdw			268.80	
<u>Shrub Types</u>	102.40			
<u>Timberland-Chaparral</u>		102.40		
Sx			102.40	
<u>Main Timber Types</u>	1708.80			
<u>Fir Types</u>		83.20		
S			83.20	
Semi-Barren				51.20
<u>Miscellaneous Types</u>		1625.60		
W ¹ Cs			134.40	
Semi-Barren				134.40
L			1491.20	
<u>Subalpine Tree Types</u>	4236.80			
<u>Lodgepole-White Pine Types</u>		44.80		
L			44.80	
<u>Foxtail-Whitebark Pine Types</u>		4192.00		
Fp			4038.40	
L Fp			83.20	
Fp W ¹			70.40	
<u>Lakes</u>	249.60		249.60	

30. MORAINÉ LAKE11507.60 Acres

	Type Total	Sub- Total	Content	Semi- Barren
<u>Barren</u>	1036.80			
Bu			1036.80	
<u>Grasslands</u>	83.20			
Mdw			64.00	
Gr			19.20	
<u>Shrub Types</u>	102.40			
<u>Timberland-Chaparral</u>		102.40		
Atr Ap			57.60	
Semi-Barren				57.60
Atr			19.20	
Sx			25.60	
<u>Main Timber Types</u>	4531.20			
<u>Pine Types</u>		1894.40		
J ap Cs			1894.40	
Semi-Barren				1158.40
<u>Fir Types</u>		633.60		
S			6.40	
Semi-Barren				6.40
S W'			236.80	
Semi-Barren				236.80
S W' L			390.40	
Semi-Barren				262.40
<u>Miscellaneous Types</u>		2003.20		
L			1817.60	
L S			185.60	
<u>Subalpine Tree Types</u>	5690.00			
<u>Lodgepole-White Pine Types</u>		19.20		
L S			19.20	
<u>Foxtail-Whitebark Pine Types</u>		5670.80		
Fp			4384.40	
Fp S			14.80	
Fp W'			1196.80	
Fp L W'			14.80	
<u>Lakes</u>	64.00		64.00	

31. CHAGOOPA FALLS

10963.20 Acres

	Type Total	Sub- Total	Content	Semi- Barren
<u>Barren</u>	6.40			
Ba			6.40	
<u>Grasslands</u>	179.20			
Mdw			134.40	
Gr			12.80	
L Mdw			32.00	
<u>Shrub Types</u>	76.80			
<u>Timberland-Chaparral</u>		76.80		
Ap Cco Sx			76.80	
<u>Main Timber Types</u>	9273.60			
<u>Pine Types</u>		2470.40		
J			691.20	
J Ap			89.60	
J Ap Cs			1100.80	
Semi-Barren				294.40
S J			537.60	
Semi-Barren				12.80
J L			51.20	
<u>Pine-Fir Types</u>		1728.00		
J W			1196.30	
Semi-Barren				166.40
SJ W			44.80	
J W P			294.40	
Semi-Barren				294.40
S J W P			38.40	
Semi-Barren				38.40
S J S			153.60	
<u>Fir Types</u>		1267.20		
W			108.80	
Semi-Barren				19.20
L S			288.00	
S W			531.20	
Semi-Barren				403.20
S W L			339.20	
Semi-Barren				339.20
<u>Miscellaneous Types</u>		3808.00		
Jo Cl			652.80	
Semi-Barren				652.80
L			2707.20	
L B			396.80	
L S			51.20	

	<u>Type</u> <u>Total</u>	<u>Sub-</u> <u>Total</u>	<u>Content</u>	<u>Semi-</u> <u>Barren</u>
<u>Subalpine Tree Types</u>	1427.20			
<u>Lodgepole-White Pine Types</u>		160.00		
L S			32.00	
L S W'			128.00	
<u>Foxtail-Whitebark Pine Types</u>		1267.20		
Fp			839.60	
Fp S			249.60	
Fp W'			128.00	

32. KERN HOT SPRINGS15232.00 Acres

	Type Total	Sub- Total	Content	Semi- Barren
<u>Barren</u>	1497.60			
Ba			1497.60	
<u>Grasslands</u>	204.80			
Mdw			153.60	
Gr			51.20	
<u>Main Timber Types</u>	3635.20			
<u>Pine Types</u>		1452.80		
J Ap			1081.60	
Semi-Barren				1081.60
J Jo Ap Cl			51.20	
J Jo QcCl			320.00	
Semi-Barren				320.00
<u>Pine-Fir Types</u>		1762.40		
J f			1062.40	
Semi-Barren				992.00
<u>Fir Types</u>		19.20		
f			19.20	
Semi-Barren				19.20
<u>Miscellaneous Types</u>		1100.80		
Jo Cl			345.60	
Semi-Barren				345.60
L			755.20	
<u>Subalpine Tree Types</u>	9317.60			
<u>Foxtail-Whitebark Pine Types</u>		9317.60		
Ff			9657.60	
Ff Ap Cs			160.00	
<u>Lakes</u>	76.80		76.80	

33. SIBERIAN PASS

8364.80 Acres

	<u>Type Total</u>	<u>Sub- Total</u>	<u>Content</u>	<u>Semi- Barren</u>
<u>Barren</u>	2758.40			
Ba			2758.40	
<u>Grasslands</u>	576.00			
Mdw			179.20	
Gr			396.80	
<u>Main Timber Types</u>	736.00			
<u>Miscellaneous Types</u>		736.00		
L			736.00	
<u>Subalpine Tree Types</u>	4288.00			
<u>Foxtail-Whitebark Pine Types</u>		4288.00		
FP			4288.00	
<u>Lakes</u>	6.40		6.40	

34. MT. LANGLEY13580.80 Acres

	<u>Type Total</u>	<u>Sub- Total</u>	<u>Content</u>	<u>Semi- Barren</u>
<u>Barren</u>	10163.20			
Ba			10163.20	
<u>Grasslands</u>	192.00			
Mdw			121.60	
Gr			70.40	
<u>Main Timber Types</u>	153.60			
<u>Miscellaneous Types</u>		153.60		
L			153.60	
<u>Subalpine Tree Types</u>	2572.80			
<u>Lodgepole-White Pine Types</u>		262.40		
L			262.40	
<u>Foxtail-Whitebark Pine Types</u>		2310.40		
Fp			2284.80	
Fp L			25.60	
<u>Lakes</u>	499.20		499.20	

35. CRABTREE MEADOW9772.80 Acres

	Type <u>Total</u>	Sub- <u>Total</u>	<u>Content</u>	Semi- <u>Barren</u>
<u>Barren</u>	1113.60			
Ba			1113.60	
<u>Grasslands</u>	563.20			
Mdw			352.00	
Gr.			211.20	
Semi-Barren				102.40
<u>Main Timber Types</u>	787.20			
<u>Miscellaneous Types</u>		787.20		
L			787.20	
<u>Subalpine Tree Types</u>	7302.40			
<u>Lodgepole-White Pine Types</u>		390.40		
L			390.40	
<u>Foxtail-Whitebark Pine Types</u>		6912.00		
Fp			6771.20	
Fp L			140.80	
<u>Lakes</u>	6.40		6.40	

36. RED SPUR3923.00 Acres

	Type Total	Sub- Total	Content	Semi- Barren
<u>Barren</u>	1478.00			
Ba			1478.00	
<u>Grasslands</u>	51.20			
Mdw			51.20	
<u>Shrub Types</u>	198.40			
<u>Timberland-Chaparral</u>		198.40		
Cl			70.40	
Semi-Barren				70.40
Ap Cco			51.20	
Semi-Barren				25.60
Ap Cs Sx			51.20	
Sx			25.60	
<u>Main Timber Types</u>	3776.00			
<u>Pine Types</u>		505.60		
J Ap			409.60	
Semi-Barren				390.40
J Ap Cco			96.00	
Semi-Barren				57.60
<u>Pine-Fir Types</u>		358.40		
J F Ap			358.40	
Semi-Barren				134.40
<u>Fir Types</u>		652.80		
F			12.80	
W Ap			249.60	
W Ap Pe			108.80	
W Ap Pe Cco			140.80	
Semi-Barren				108.80
W Sx			140.80	
<u>Miscellaneous Types</u>		2259.20		
Jo Cl			1971.20	
Semi-Barren				1971.20
L			211.20	
Lp L			76.80	
<u>Subalpine Tree Types</u>	3468.80			
<u>Lodgepole-White Pine Types</u>		320.00		
L			320.00	
<u>Foxtail-Whitebark Pine Types</u>		3148.80		
Fp			1907.20	
Fp W'			531.20	
Fp L			710.40	
<u>Lakes</u>	25.60		25.60	

37. KAWEEH BASIN12243.20 Acres

	<u>Type Total</u>	<u>Sub- Total</u>	<u>Content</u>	<u>Semi- Barren</u>
<u>Barren</u>	7193.60			
Ba			7193.60	
<u>Grasslands</u>	153.60			
Mdw			153.60	
<u>Shrub Types</u>	32.00			
<u>Timberland-Chaparral</u>		32.00		
Ap Cs			32.00	
<u>Main Timber Types</u>	972.30			
<u>Pine Types</u>		300.30		
J Ap Cs			300.30	
Semi-Barren				232.00
<u>Miscellaneous Types</u>		672.00		
L			672.00	
<u>Subalpine Tree Types</u>	3636.40			
<u>Lodgepole-White Pine Types</u>		160.00		
L			160.00	
<u>Foxtail-Whitebark Pine Types</u>		3526.40		
Fp			3251.20	
Fp L			256.00	
Fp Wp			12.30	
Wp			6.40	
<u>Lakes</u>	204.30		204.30	

38. BIG ARROYO12448.00 Acres

	Type <u>Total</u>	Sub- <u>Total</u>	<u>Content</u>	Semi- <u>Barren</u>
<u>Barren</u>	6771.20			
Ba			6771.20	
<u>Grasslands</u>	441.60			
Mdw			422.40	
Sx Gr			19.20	262.40
<u>Shrub Types</u>	76.80			
<u>Timberland-Chaparral</u>		76.80		
Sx			25.60	
Ap Atr Cs			51.20	
<u>Main Timber Types</u>	1254.40			
<u>Pine Types</u>		300.80		
J Ap Cs			96.00	
Semi-Barren				96.00
J Atr Ap Cs			204.80	
Semi-Barren				70.40
<u>Miscellaneous Types</u>		953.60		
L			953.60	
<u>Subalpine Tree Types</u>	3699.20			
<u>Lodgepole-White Pine Types</u>		710.40		
L			569.60	
L W'			140.80	
<u>Foxtail-Whitebark Pine Types</u>		2988.80		
Fp			2784.00	
Fp L			204.80	
<u>Lakes</u>	204.80		204.80	

39. TRIPLE DIVIDE PEAK

3475.20 Acres

	<u>Type</u> <u>Total</u>	<u>Sub-</u> <u>Total</u>	<u>Content</u>	<u>Semi-</u> <u>Barren</u>
<u>Barren</u>	3200.00			
Ba			3200.00	
<u>Grasslands</u>	140.00			
Mdw			140.00	
<u>Subalpine Tree Types</u>	44.80			
<u>Lodgepole-White Pine Types</u>		32.00		
L			32.00	
<u>Foxtail-Whitebark Pine Types</u>		12.80		
Fp L			12.80	
<u>Lakes</u>	89.60		89.60	

40. MILESTONE12710.40 Acres

	<u>Type Total</u>	<u>Sub- Total</u>	<u>Content</u>	<u>Semi- Barren</u>
<u>Barren</u>	9075.20			
Ba			9075.20	
<u>Grasslands</u>	179.20			
Mdw			179.20	
<u>Shrub Types</u>	172.80			
<u>Timberland-Chaparral</u>		172.80		
Ap Pe			44.80	
Sx			44.80	
A			83.20	
<u>Main Timber Types</u>	64.00			
<u>Miscellaneous Types</u>		64.00		
Jo			51.20	
Jo Cl			12.80	
Semi-Barren				12.80
<u>Subalpine Tree Types</u>	3001.60			
<u>Lodgepole-White Pine Types</u>		1536.00		
L			1536.00	
<u>Foxtail-Whitebark Pine Types</u>		1465.60		
Fp			723.20	
Fp L			57.60	
L Fp W			25.60	
Fp W			64.00	
Wp			595.20	
<u>Lakes</u>	217.60		217.60	

41. TYNDALL CREEK

14209.60 Acres

	Type Total	Sub- Total	Content	Semi- Barren
<u>Barren</u>	3630.00			
Ba			3630.00	
<u>Grasslands</u>	409.60			
Mdw			70.40	
L Mdw			33.20	
Gr			211.20	
Sx Gr			44.80	
<u>Shrub Types</u>	723.20			
<u>Timberland-Chaparral</u>		723.20		
Ap			275.20	
Semi-Barren				217.60
Ap Sx			115.20	
Ap Cl			128.00	
Semi-Barren				83.20
Ap Atr			96.00	
Semi-Barren				96.00
Hdd Atr			32.00	
Sx			76.80	
<u>Main Timber Types</u>	1977.60			
<u>Pine Types</u>		243.20		
J			38.40	
J Ap			204.80	
<u>Pine-Fir Types</u>		12.80		
J W Ap			12.80	
<u>Fir Types</u>		102.40		
W Ap			102.40	
Semi-Barren				25.60
<u>Miscellaneous Types</u>		1619.20		
Jo			19.20	
Jo Cl			550.40	
Semi-Barren				550.40
Jo Ap Cl			300.30	
Semi-Barren				275.20
L			710.40	
LW			33.40	

	Type <u>Total</u>	Sub- <u>Total</u>	<u>Content</u>	Semi- <u>Farren</u>
<u>Subalpine Tree Types</u>	7352.30			
<u>Lodgepole-White Pine Types</u>		774.40		
L			774.40	
<u>Foxtail-Whitebark Pine Types</u>		7073.40		
Fp			4172.80	
Fp W'			601.60	
Fp W'S			96.00	
Ff L			473.60	
Ff Wp			800.00	
Fp Ap Cs			275.20	
Fp Jo			44.80	
Wp			614.40	
<u>Lakes</u>	166.40		166.40	

42. WRIGHT LAKES

11552.00 Acres

	<u>Type Total</u>	<u>Sub- Total</u>	<u>Cont ent</u>	<u>Semi- Barren</u>
<u>Barren</u>	6060.80			
Ba			6060.80	
<u>Grosslands</u>	1017.60			
Mdr			294.40	
Gr.			723.20	
Semi-Barren				345.60
<u>Shrub Types</u>	83.20			
<u>Timberland-Chaparral</u>		83.20		
Sx			83.20	
<u>Main Timber Types</u>	460.80			
<u>Miscellaneous Types</u>		460.80		
L			460.80	
<u>Subalpine Tree Types</u>	3737.60			
<u>Lodgepole-White Pine Types</u>		1530.80		
L			1530.80	
<u>Foxtail-Whitebark Pine Types</u>		2156.80		
Fp			1984.00	
Fp L			64.00	
Fp Wp			108.80	
<u>Lakes</u>	192.00		192.00	

43. WALLACE LAKE

6720.00 Acres

	Type <u>Total</u>	Sub- <u>Total</u>	<u>Content</u>	Semi- <u>Barren</u>
<u>Barren</u>	6054.40			
Ba			6054.40	
<u>Grasslands</u>	57.60			
Mdw			57.60	
<u>Subalpine Tree Types</u>	204.80			
<u>Lodgepole-White Pine Types</u>		140.80		
L			140.80	
<u>Foxtail-Whitebark Pine Types</u>		64.00		
Fp			12.80	
L Fp			19.20	
Wp Fp L			19.20	
Wp			12.80	
<u>Lakes</u>	403.20		403.20	

44. DIAMOND MESA

7468.30 Acres

	Type <u>Total</u>	Sub- <u>Total</u>	<u>Content</u>	Semi- <u>Barren</u>
<u>Barren</u>	6400.00			
Ba			6400.00	
<u>Subalpine Tree Types</u>	672.00			
<u>Foxtail-Whitebark Pine Types</u>		672.00		
Fp Wp			12.80	
WP			659.20	
<u>Lakes</u>	396.80		396.80	

KFRN DRAINAGE191968.00 Acres

	Type Total	Sub- Total	Content	Semi- Barren
<u>Barren</u>	75097.60			
Ba			75097.60	
<u>Grasslands</u>	4896.00			
Mdw			2956.80	
L Mdw			179.20	262.40
Gr			1696.00	
Semi-Barren				518.40
Sx Gr			64.00	
<u>Shrub Types</u>	1715.20			
<u>Timberland-Chaparral</u>		1715.20		
Ap			275.20	
Semi-Barren				217.60
Ap Cs			32.00	
Ap Cs Sx			198.40	
Ap Cco			51.20	
Semi-Barren				25.60
Ap Cco Sx			76.80	
Ap Pe			44.80	
Ap Sx			115.20	
Ap Cl			128.00	
Semi-Barren				83.20
Ap Atr			153.60	
Semi-Barren				153.60
Ap Atr Cs			51.20	
Atr			19.20	
Hdd Atr			32.00	
Cl			70.40	
Semi-Barren				70.40
Sx			384.00	
A			83.20	
<u>Main Timber Types</u>	40038.00			
<u>Pine Types</u>		12102.00		
J			3340.80	
Semi-Barren				576.00
J Ap			3424.00	
Semi-Barren				2502.40
J Ap Cco			96.00	
Semi-Barren				57.60
J Ap Cs			3392.00	
Semi-Barren				1836.80
J Atr Ap Cs			204.80	
Semi-Barren				70.40
J Jo Ap Cl			51.20	
J Jo Qc Cl			320.00	
Semi-Barren				320.00

	Type Total	Sub- Total	Content	Semi- Barren
<u>Main Timber Types</u> Cont'd				
<u>Pine Types</u> Cont'd				
S J			1222.40	
Semi-Barren				25.60
J L			51.20	
<u>Pine-Fir Types</u>		5996.80		
J W			4224.00	
Semi-Barren				2188.80
J W Ap			371.20	
Semi-Barren				134.40
S J W			294.40	
Semi-Barren				249.60
J W P			294.40	
Semi-Barren				294.40
S J W P			38.40	
Semi-Barren				38.40
J S			620.80	
Semi-Barren				70.40
S J S			153.60	
<u>Fir Types</u>		4512.00		
W			140.80	
Semi-Barren				38.40
W Ap			352.00	
Semi-Barren				25.60
W Ap Pe			108.80	
W Ap Pe Co			140.80	
Semi-Barren				108.80
W Sx			140.80	
S			80.60	
Semi-Barren				57.60
S L			1017.60	
S W			1792.00	
Semi-Barren				940.80
S W L			729.60	
Semi-Barren				601.60
<u>Miscellaneous Types</u>		17427.20		
Jo Cl			3532.80	
Semi-Barren				3532.80
Jo			70.40	
Jo Ap Cl			300.80	
Semi-Barren				275.20
L			12544.00	
W Cs			134.40	
Semi-Barren				134.40
Pf L			76.80	
L B			492.80	
L S			236.80	
L W			38.40	

	Type <u>Total</u>	Sub- <u>Total</u>	<u>Content</u>	Semi- <u>Barren</u>
<u>Subalpine Tree Types</u>	67360.40			
<u>Lodgepole-White Pine Types</u>		6483.20		
L S			51.20	
L			6163.20	
L S W'			128.00	
L W'			140.80	
<u>Foxtail-Whitebark Pine Types</u>		60377.20		
F P			52038.80	
F P S			710.40	
F P W'			2528.00	
F P L W'			44.80	
F P L			2043.00	
F P W' S			96.00	
F P Ap Cs			435.20	
F P Jo			44.80	
W P F P L			44.80	
W P F P			998.40	
W P			1888.00	
<u>Lakes</u>	2860.80		2860.80	

BIG TREE GROVES

Lost Grove (57.60 acres) (10 or 15 trees over ten feet in diameter)

A small but exceedingly beautiful grove. The loveliest of all the small groves that are accessible to the tourist.

Muir Grove (294.40 acres) (Number of trees not estimated)

This grove has been reduced in size in the mapping as it was found that a gap of more than a half mile intervenes between it and the portion south which I am calling the Pine Ridge Grove. Muir Grove is to be classed with Giant Forest and Garfield Grove in its beauty and size of trees.

Pine Ridge Grove (108.80 acres) (No estimate of number of trees)

Formerly considered a part of Muir Grove but separated from it by more than a half mile of pine and fir forest. Many large trees are found here, but no estimates of numbers were made.

Skagway Grove (44.80 acres) (No estimate of trees)

This is a small grove lacking the beauty of the higher forests but of interest from the ecological standpoint as it occupies a lower elevation and is subject to periodical burning. A small group of Sequoias isolated from the main body is found 500 feet to the south of the grove.

Little Baldy Grove (non-existent)

The supposed location of this grove, upon examination, showed complete absence of Sequoias but the presence of several large Incense Cedars, which are easily mistaken for Big Trees.

Halstead Grove (70.40 acres) (No estimate of trees)

This grove probably should be renamed Suwanee Grove as the original Suwanee Grove was found to be non-existent. It is located on neither Halstead nor Suwanee drainages but on the small creek that enters the Marble Fork just below the Marble Fork Bridge.

Suwanee Grove (Non-existent)

This grove was mapped on the 1933 Master Plan as occurring on the next drainage west of Halstead Meadow. Study of the area determined that the presence of Incense Cedars in large numbers and their close similarity to the Big Tree had been responsible for the supposed grove of trees. It is suggested that the name Suwanee be transferred to the Halstead Grove inasmuch as the road and trail signs are so labeled.

Giant Forest (2387.20 acres) (Number of trees not estimated)

Giant Forest is far and away the finest stand of Sequoias accessible to the motoring public, and will no doubt remain in the Public's eye as the outstanding growth of Big Tree, but to the hiker and lover of our mountain wilderness areas the Garfield Grove will probably be the most beautiful. Included in the Giant Forest area are two small groves at a lower elevation and to the northwest of Beetle Rock. A few of these trees are found just below the Colony Mill Road, about a mile or a half mile down stream from the Bridge.

Sequoia Grove Map

Omitted

Castle Rock Groves (345.60 acres) (No estimate of number of trees)

Originally listed on official maps as a single grove with ten trees over ten feet, the newest study shows 4 groves with a much larger acreage. The trees in this unit are much scattered but of large size. The Sugar Pine is absent in about 80 percent of the area.

Redwood Meadow Groves (384.00 acres) (No estimate of trees)

This group includes three groves which were formerly considered separate units; Redwood Meadow, Little Redwood Meadow and Cliff Creek Groves. Since they are a unit on the area they have been mapped and grouped as one group. The trees in the vicinity of Redwood Meadow are splendid specimens and are surrounded by abundant reproduction. Standing Sequoias that are dead are a rarity in the park, and here at Redwood Ranger Station are five gigantic dead sticks standing on the western edge of the meadow.

Granite Creek Grove (6.40 acres) (8 trees 1 to 7 feet in diameter)

Possibly this group should not be dignified by the title of "grove". However, it is a very young stand with abundant reproduction and is of considerable ecological interest in that it appears to be one point where the Sequoia has gained a new foothold and is successfully propagating itself. This small group is botanically an extension of the Redwood Meadow Grove, but is actually separated from it by 300 or 400 feet.

East Cliff Creek Grove (12.80 acres) (10 trees over 10 feet in diameter)

A new grove with some very beautiful trees. It is located in the second drainage about 1 mile (airline) south of Redwood Station. A large 8 foot tree stands isolated above the grove about 400 feet up the draw.

Two individual trees were found in isolated positions up Cliff Creek: one, 2 miles south of the Redwood Station; the other, a half mile southeast of the first. Both trees are comparatively young (about 2 to 3 feet in diameter) and show no evidence of abnormality. They seem to be recent arrivals in their respective areas and as such would tend to indicate a spreading of the species in the Cliff Creek drainage. No evidence could be found of any former stand of the species in these two areas, therefore, they do not seem to be relics.

Squirrel Creek Grove (19.20 acres) (6 or 7 over ten feet)

This is a very small grove with few trees, and is located within a small area on the Oriole Road. The bulk of what was formerly considered Squirrel Grove lies a half mile above and to the northeast.

Paradise Ridge Grove (211.20 acres) (No estimate of trees)

Formerly considered a part of Squirrel Grove but actually separated from it by a half mile of forest. This is a very beautiful grove, ranking with Muir Grove in size and beauty of trees. A very large hollow, down tree contains the initials of visitors for many years back.

Isolated from this grove by only a few hundred feet, and across the ridge on the very headwaters of Paradise Creek, are 4 or 5 medium sized Sequoias growing in a nearly barren area. These trees deserve close study, especially as to their annual growth and whether or not they are producing viable seeds.

Oriole Grove (19.20 acres) (13 trees over ten feet in diameter)

This new grove is about one-half mile southeast of Oriole Lodge. The easiest route of approach is to follow the trail toward the site of the Army plane crash of 1932, and turn up the canyon to the left about one-half mile before coming to the site of the crash. Reproduction in this grove was relatively abundant.

Redwood Creek Grove (121.80 acres) (No estimate of number of trees)

This grove has been reduced in size from that shown on the official maps of the park. In contrast to Atwell Grove, the trees are very scattered. Many very large trees are found in this grove.

Atwell Grove (1312 acres) (No estimate of number of trees)

This grove is greatly enlarged over the original area as shown on official maps in the Master Plan. Atwell Grove ranks in beauty and size of trees with Muir Grove. Study of this grove will show many trees over ten feet in diameter. The reproduction in the area is abundant in some places and entirely absent in others. The highest known Sequoia grows above the top edges of the Atwell Grove at 8800 feet.

East Fork Groves (473.60 acres in park; 320.0 in National Forest)

East Fork Grove proper was at one time a solid unit, but a heavy burn occurred upwards of 40 years ago which left a ridge of chaparral down the middle of the type. A small grove upstream and opposite Silver City is included in the total for this grove.

Horse Creek Grove (89.60 acres) (about 70 trees over 10 feet)

Discovered by Ranger Brooks in the spring of 1933 and first explored by Brooks and Frost in fall of 1933. A large number of well formed trees on a very steep mountain side.

Cahoon Creek Grove (19.20 acres) (3 over 10 feet)

A few trees in the drainage west of Horse Creek Grove that are very scattered but all in the stream bottom.

Eden Grove (864.00 acres) (No estimate of trees)

This grove is unique in that the trees are very scattered throughout the area. Few groups of trees are to be found. Many large trees are known to be present, however.

Coffeepot Canyon Grove (32.00 acres) (2 or 3 trees over 10 feet)

A very disappointing grove; very scattered.

Case Mountain Grove (140.00 acres) (No estimate of trees)

Not entered for survey.

New Case Mountain Grove (32.00 acres) (No estimate of number of trees)

Not entered for survey. Probably only 4 or 5 trees over ten feet in diameter.

Surprise Grove (32.00 acres) (No estimate of number of trees)
Small and mediocre grove.

Homer's Nose Grove (192.00 acres) (No estimate of trees)
Not entered for study, but apparently a grove of very many large trees. This grove is located in the head of Cedar Creek, was formerly known as South Fork (North). A group of Sequoias is found lower down on the drainage at Cedar Flat on the trail.

South Fork (North) (51.20 acres) (No estimate of trees)
Formerly known as South Fork (South).

South Fork Grove (390.40 acres) (No estimate of number of trees)
A sizable grove with many very large trees in it.

Dillon Wood Grove (864.00 acres in park; 1120 acres in National Forest)

Garfield Grove (1356.80 acres) (No estimate of number of trees)
Dillon and Garfield Groves are a unit, having a substantial connection across Garfield Gap. In many cases I have found that people who know the many Sequoia groves in the Sierra feel that Garfield Grove is the most beautiful. The combined acreages of Garfield and Dillon come very close to the total acreage of Giant Forest.

Devil's Canyon Grove (6.4 acres inside and 25.6 acres outside the old park line. The new boundary includes all).

A small and relatively uninteresting grove. No estimate has been made of the size of trees contained in it.

Dennison Grove (25.6 acres in and 12.30 acres out of the park)
Small and uninteresting grove with few trees.

Highest Sequoia in park

Growing at an elevation of 8500 feet above sea level. This tree is 140 feet high and 13.7 feet in diameter at 7 feet. The tree bears cones which are apparently slightly smaller than normal. It has not been determined whether or not the seeds are viable. The tree is about 800 to 1000 feet above the Atwell Grove and is solitary.

Lowest Sequoia in park

Growing at an elevation of 3500 feet above sea level. This tree is located in the river bed and is no doubt water-carried to its present location. The tree is columnar in form and stands about 75 feet high.

Two other trees have been found down stream and outside of the park; one, at 300 feet just below Johnson's Ranch; the other, at the foot of Devil's Canyon or about 2900 feet.

Total Acreage of Sequoias in park - 9804.30

Total Acreage of Sequoias Mapped - 11,443.40

Legend For Grazing Map



Grasslands (Dixon's #353)

Both dry grasslands and meadows



Woodland-Grasslands (Dixon's #324)

Mixture of Oaks and grazing land.



Sagebrush (Faber's #44)

Yerba Santa with Grasslands.



Chamise (Dixon's #343)

Thin stand of chamise with grasslands.

Opening Day

1914

Legend For Ribes Control Map

-  Sugar Pine (Dixon's #325)
-  Western White Pine (Dixon's #354)
-  Limber Pine (Faber's #22)
-  Foxtail Pine (Dixon's #322)
-  Foxtail-Whitebark Pine (Dixon's #322)
-  Foxtail-Western White (Dixon's #322)
-  Whitebark Pine (Dixon's #321 $\frac{1}{2}$)
-

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1874

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